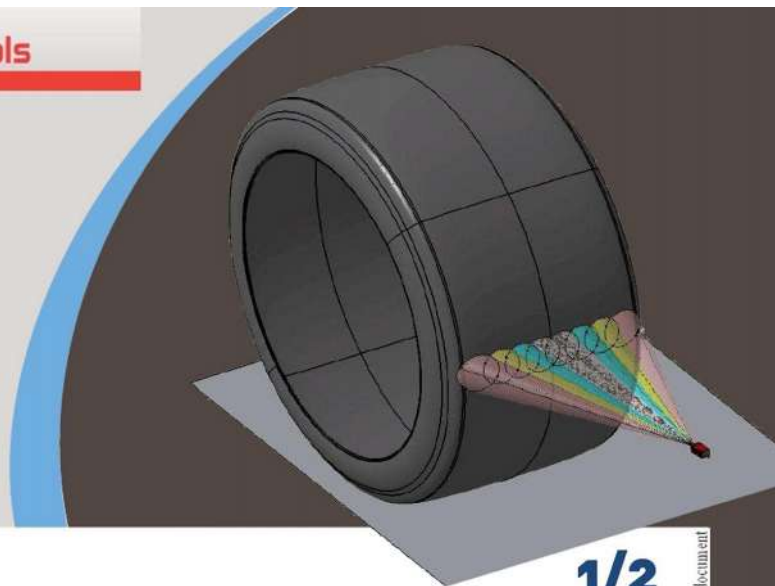




1/2

IRN8C

8-Channel Infrared tyre temperature sensor for CAN Bus

Range

-20 to +140°C

-20 to + 200°C

Measurement

8 channels in line

Accuracy

+/- 1 % FS

Response time

260 ms at FS

(=400 ms on raw input)

CAN bus 2.0 B

120 Ω not installed (on demand)

Output data

2 bytes per channel (signed int)

Resolution

0.1 °/bit

Baudrate

125 k to 1Mbps

Frequency

1 Hz, 10 Hz, on trigger

Supply voltage

6 to 16V

Supply current

17 mA

Measurement distance

200 to 700 mm

Mean angle between channels

4.5 °

Field of view (90% radiation)

6.5 : 1 (30mm at 200mm)

Wave length

8 to 14 μm

Emissivity/distance tuning

Gain factor by CAN 0.5 to 2

Operating temp

-20 to + 100°C

Storage temp

-40 to + 125°C



Distance	Øtarget per channel	Total width
200 mm	30 mm	152 mm
300 mm	45 mm	228 mm
400 mm	60 mm	304 mm
500 mm	75 mm	380 mm
600 mm	90 mm	456 mm
700 mm	105 mm	532 mm

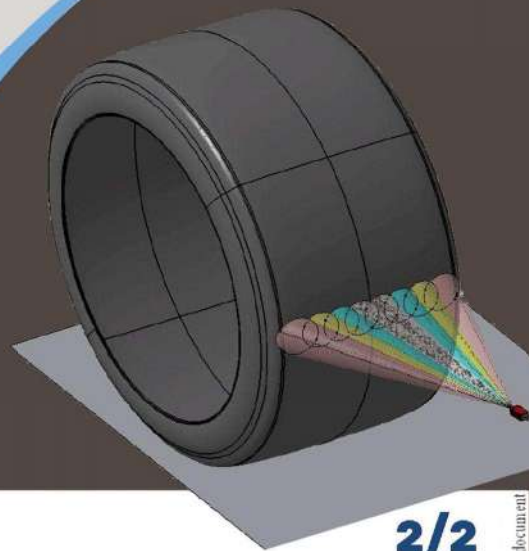
lens 0°

Ordering ref ex : IRN8C-F2-200
IRN8C-F1 - Range200 (200°C)
140 (140°C)

1 m cable of 4X26AWG FEP
tinned copper braided cable 250V 200°C

Red
Black
Green
White
Braid

Supply
0 V
CAN High
CAN Low
Not connected



2/2

IRN8C – lens 0°

8-Channel Infrared tyre temperature sensor for CAN Bus

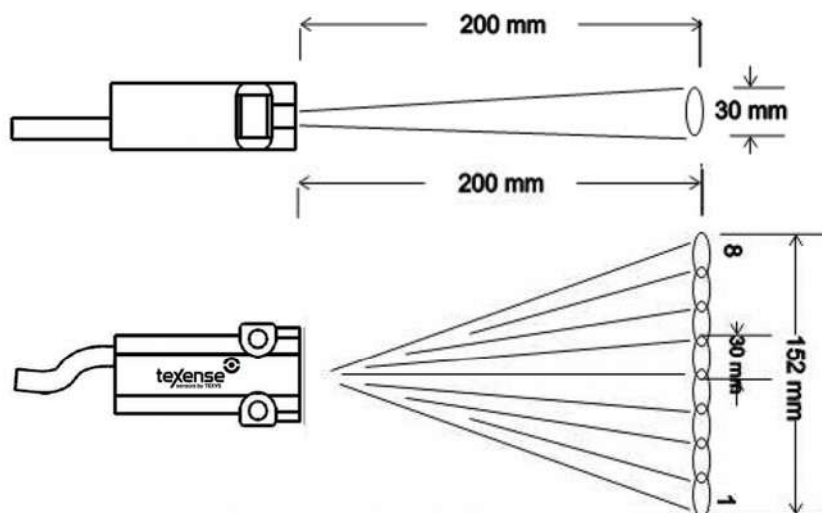
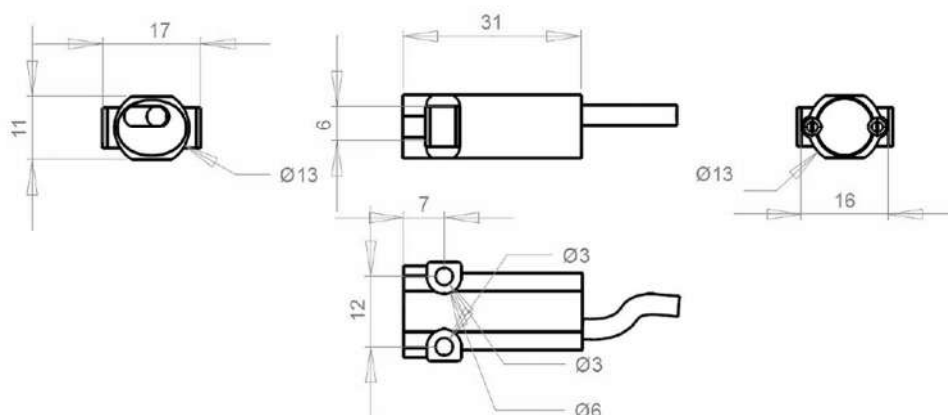
Housing Dimensions

Aluminium

31x11x17 mm

Weight (without cable)

15 g



In the interest of continuous product improvement, we reserve the right to alter without prior notice the specifications and features described in this document.